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HDP/SB/21 based on PTO/SB/21 (08-00)

FORM (to be used for all correspondence after initial filing) Total Number of Pages in This Submission Total Number of Pages in Attention Undersory Total	TRAN	OBSITT A L		Applic	cation Number	10/082,	551
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Appeals and Interferences Appeals and Interferences Appeal Communication to Group (Appeal Molice, Brief, Reply Brief) After Final Petition to Convert to a Provisional Application Affidavits/declaration(s) Power of Attorney, Revocation Change of Correspondence Address Terminal Disclairmer Request Acknowledgement Postcard Corporation Corporation Remarks The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed. Signature Date June 6, 2002 Appeals and Interferences Appeal Communication to Group (Appeal Molice, Brief, Reply Brief) Proprietary Information Disclosure(s) (please identify below): Form 1449 with 24 Reference Acknowledgement Postcard Acknowledg	Fee Transmittal Fo	nm				. —	
After Final	Fee Attached		☐ Drawin	g(s)			
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Extension of Time Request Change of Correspondence Address Terminal Disclaimer Request for Refund CD, Number of CD(s) The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed. SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm or Individual name Signature Date June 6, 2002 Certificate OF MAILING/TRANSMISSION Thereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelo addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or facsimile transmitted to the U.S. Patent a Trademark Office on the date indicated below. Typed or printed name Michelle A. Smith	Affidavits/decla	aration(s)]			☐ Statu	us Letter
Express Abandonment Request Request for Refund CD, Number of CD(s) The Commissioner is hereby authorized to charge any attom of the proposition of Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed. Response to Missing Parts/ Incomplete Application Response to Missing Parts/ Incomplete Application Response to Missing Parts ander 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm or Individual name Signature Date June 6, 2002 CERTIFICATE OF MAILING/TRANSMISSION I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelo addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or facsimile transmitted to the U.S. Patent a Trademark Office on the date indicated below. Typed or printed name Michelle A. Smith	Extension of Time	Request					
Certified Copy of Priority Document(s) Remarks The Commissioner is hereby authorized to charge any additional fees that may be required under 37 CFR 1.16 or to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed. Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm or Individual name Signature Date June 6, 2002 CERTIFICATE OF MAILING/TRANSMISSION I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelo addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or facsimile transmitted to the U.S. Patent at Trademark Office on the date indicated below. Typed or printed name Michelle A. Smith	☐ Certified Copy of Priority						
Document(s) Remarks Additional fees that may be required under 37 CFR 1.16 or to Deposit Account No. 08-0750. A duplicate copy of this sheet is enclosed. Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Or Individual name Signature Date June 6, 2002 CERTIFICATE OF MAILING/TRANSMISSION I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelo addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, or facsimile transmitted to the U.S. Patent at Trademark Office on the date indicated below. Typed or printed name Michelle A. Smith							
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#5

UNITED STATES PATENT AND TRADEMARK OFFICE

Application (Mar.:

10/082,551

Filing Date:

February 25, 2002

Applicant:

Szeming Cheng et al.

Group Art Unit:

Unknown

Examiner:

Unknown

Title:

Enhanced Method for Digital Data Hiding

Attorney Docket:

9432-000172

Hon. Commissioner of Patents and Trademarks Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. <u>COPIES</u>

- A. X Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.
- B. ____ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))
CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)
A. X Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).
B A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):
 See the attached foreign patent office communication from a counterpart foreign application: English translations are provided for: Other:
C The following additional information is provided for the Examiner's consideration.
CROSS REFERENCE TO RELATED APPLICATION(S)
A The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.
Serial No. Filing Date Art Unit
THIS IDS IS BEING FILED UNDER
A. X 37 C.F.R. § 1.97(b): (check <u>only</u> one box)
1 within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
2 within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

Serial No. 10/082,551

III.

IV.

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1.97(b)(3)). No fee or certification of the merits has under 37 C.F.R. § 1.97(c) and 1.97(e) below; or, if no certification	t Office Action on the merits (37 C.F.R. § on is required. In the event that a first been issued, please consider this IDS see the certification under 37 C.F.R. § ion has been made, charge our deposit f \$180.00 as required by 37 C.F.R. §
	t Office Action after the filing of a request 37 C.F.R. § 1.114. No fee or certification
B 37 C.F.R. § 1.97(c): (check <u>only</u>	one box)
——————————————————————————————————————	r any Final Office Action under 37 C.F.R. nder 37 C.F.R. § 1.311, or an action that
1 No certification; therefore required by 37 C.F.R. § 1.17(p).	e, a fee in the amount of \$180.00 is
2 See the certification below	. No fee is required.
C 37 C.F.R. § 1.97(d):	
	a Final Office Action under 37 C.F.R. § Inder 37 C.F.R. § 1.311, yet on or before
1 See the certification belo required by 37 C.F.R. § 1.17(p).	w. A fee in the amount of \$180.00 is
CERTIFICATION UNDER 37 C.F.R. § 1.	.97(e): (check only one box)
The undersigned hereby certifies that:	
communication from a foreign page application not more than three mon	ained in this IDS was first cited in a atent office in a counterpart foreign this prior to the filing of this IDS (See 37 tement under 37 C.F. R. 1.704(d) below
from a foreign patent office in a cour knowledge of the undersigned after r	in this IDS was cited in a communication nterpart foreign application, and, to the making reasonable inquiry, no item of mown to any individual designated in 37

VI.

C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. __Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

____ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

- A. ____ A check in the amount of \$180.00 is enclosed for the above-identified fee.
- B. ____ Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: <u>June 6, 2002</u>

Timothy D. MacIntyre Reg. No. 42,824

HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600





FORM HDP 1949 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET NO.	SERIAL NO.
9432-000172	10/082,551
APPLICANT	
Szeming Cheng et al.	
FILING DATE	GROUP
February 25, 2002	Unknown

U.S. P	U.S. PATENT DOCUMENTS					
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		5,930,369	07/27/99	Cox et al.		
2.		5,915,027	06/22/99	Cox et al.		
3.		5,905,800	05/18/99	Moskowitz et al.		
4.		5,893,067	04/06/99	Bender et al.		
5.		5,848,155	12/8/98	Cox		
6.		5,809,139	09/15/98	Girod et al.		
7.		5,778,102	07/07/98	Sandford, II et al.		
8.		5,748,783	05/05/98	Rhoads		
9.		5,450,490	09/12/95	Jensen et al.		
10.		5,073,925	12/17/91	Nagata et al.		

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examiner's Initials				
1.		E. Koch, J. Zhao, "Towards Robust and Hidden Image Copyright Labeling", In Proc. of 1995 IEEE Workshop on Nonlinear Signal and Image Processing (Neos Marmaras, Greece, June 20-22, 1995)			
2.		I.J. Cox, J. Kilian, F.T. Leighton, T. Shamoon, "Secure Spread Spectrum Watermarking for Multimedia", IEEE Transactions on Image Processing, Vol. 6, No. 12, December 1997.			
3.		I.J. Cox, M.L. Miller, A.L. McKellips, "Watermarking as Communications with Side Information", Proceedings of the IEEE, Vol. 87, pp. 1127-1141, July 1999.			
4.		F. Hartung, J. K. Su, B. Girod, "Spread Spectrum Watermarking: Malicious Attacks and Counterattacks" Proc. SPIE Security Watermarking of Multimedia Contests 99, San Jose, CA., January 1999.			

Examiner:	Date Considered:



FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 2 of 1

ATTORNEY DOCKET NO.	SERIAL NO.
9432-000172	10/082,551
APPLICANT	
Szeming Cheng et al.	
FILING DATE	GROUP
February 25, 2002	Unknown

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examiner's Initials				
5.		Q. Cheng, T. S. Huang, "An Additive Approach to Transform-Domain Information Hiding and Optimum Detection Structure, IEEE Transactions on Multimedia, Vol. 3, pp. 273-284, September 2001.			
6.		M. Arnold, S. Kanka, "MP3 Robust Audio Watermarking" DFG VIIDII Watermarking Workshop 1999, Erlangen, Germany.			
7.		W. Bender, D. Gruhl, N. Morimoto, A. Lu, "Techniques for Data hiding", IBM Systems Journal, Vol. 35, Nos 3&4, 1996.			
8.		C. I. Podilchuk, W. Zeng, "Image-Adaptive Watermarking Using Visual Models", IEEE Journal on Selected Areas in Communications, Vol. 16, No. 4, May 1998.			
9.		F. Hartung, B. Girod, "Watermarking of Uncompressed and Compressed Video", vol. 66, No. 3, May 1998, pp. 283-301.			
10.		M. D. Swanson, B. Zhu, A.H. Tewfik, "Robust Data Hiding for Images", Proc. 1996 IEEE Digital Signal Processing Workshop.			
11.		L. Boney, A. H. Tewfik, K.N. Hamdy, "Digital Watermarks for Audio Signals", 1996 IEEE Proceedings of Multimedia.			
12.		P. Bassia, I. Pitas, "Robust Audio Watermarking in the Time Domain", Thessaloniki 540 06, Greece.			
13.		M. Arnold, S. Kanka, "MP3 Robust Audio Watermarking", Department for Security Technology for Graphics and Communication Systems.			
14.		C. Neubauer, J. Herre, "Audio Watermarking of MPEG-2 AAC Bit Streams", AES 108th Convention, Paris 2000 February 12-22.			

Examiner:	Date Considered: